Section 5

5. SHEET METAL

SECTION 5

SHEET METAL

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5.1GENERAL

The hood,binnacle, footsteps and fenders are all made of sheet metal. They provide protection for the operator. The tractor must not be operated with any of these sheet metal components removed.

To prevent corrosion, always keep the sheet metal components clean and immediately touch-up with paint if any painted surfaces become chipped.

Bolt Torques:

Hinge mounting bolts	...	39 lbf.ft (52 Nm).
Fender mounting bolts	...	125 lbf.ft (169 Nm).

5.2 HOOD

Removal and Refitment

Removal

1. Pull the hood latch cable and lift the hood.
2. Disconnect the battery terminals.
3. Remove the head light wiring connections on both left and right hand side of head light.
4. Support the hood with suitable wooden piece at suitable place.
5. Remove the instrument panel cover refer operation 5.13.
6. Remove the gas strut ball joint at bottom point.
7. Remove the hinge mounting bolts on both left and right hand side.
8. Lift the front edge and pull forward to clear the seal to remove the hood.

CAUTION:While removing the gas strut , the hood should be in fully opened condition, otherwise it may create an injury to the operator. Handle the hood carefully and place in scratch free area.

Refitment

9. Reverse procedures 1 to 8, except:

a. Ensure that the rear edge of the hood is located beneath the lip of the seal.

b. Tighten the hinge mounting bolts to a torque of 52 lbf ft (39Nm).

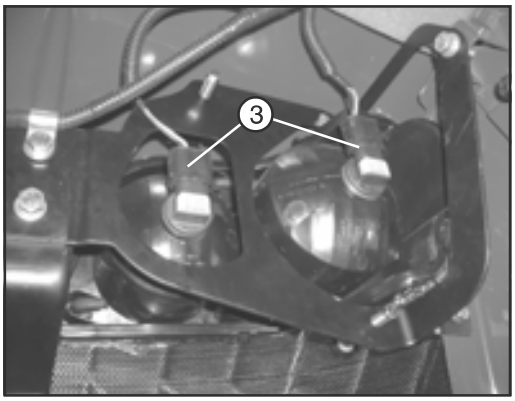

Fig 1

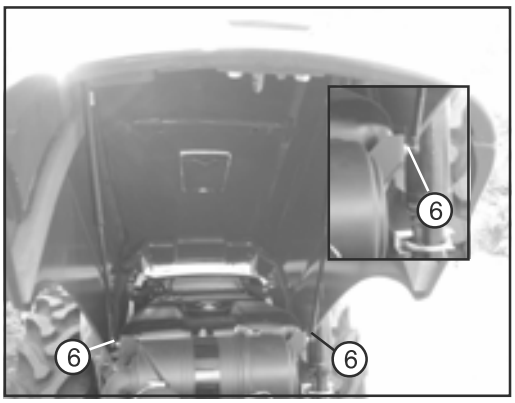

Fig 2

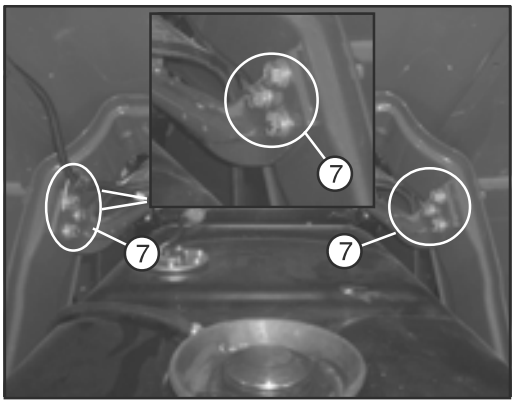

Fig 3

5.3 AIR CLEANER

Removal and Refitment

Removal

1. Pull the hood latch cable and lift the hood.
2. Disconnect the battery terminals.
3. Remove hose clamps and disconnect the hoses from air cleaner.
4. Remove the vaccum switch wiring connections.
5. Remove two bolts and spring washers securing the air cleaner and remove it.

Refitment

6. Reverse procedures 1 to 5.

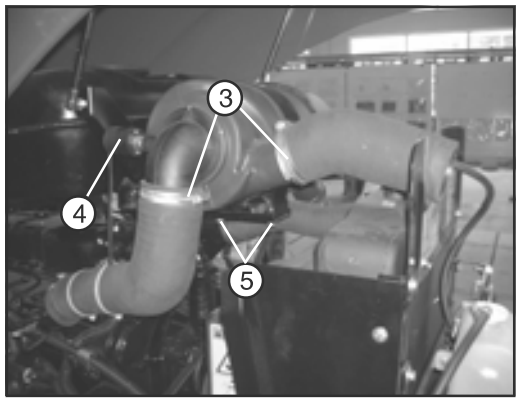

Fig 4

5.4 DRY TYPE AIR CLEANER OVER HAULING

Removal and Refitment

Removal of filter:

1. Unfasten or unlatch the service cover . Because of the filter fits tightly over the outlet tube to create the critical seal there will be some initial resistance similar to breaking the seal on a jar.
2. Gently move the end of the filter back and forth to break the seal. Avoid knocking the filter against the housing.
3. The inner secondary filter element must be replacedevery third primary filter change. Remove the inner secondary filter as you would the primary filter.
4. Make sure you cover the air cleaner outlet tube to avoid any unfiltered contaminant dropping into

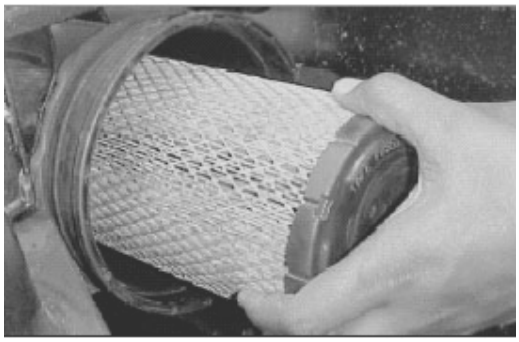

Fig 5

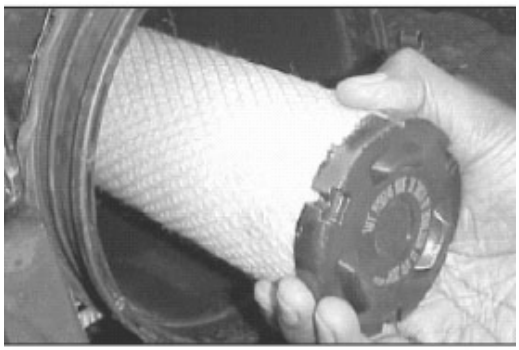

Fig 6

the engine.

Clean both surfaces of the outlet tube and empty the dust cap

1. Use a clean cloth to wipe the filter sealing surface and the inside of the outlet tube. Contaminant on the sealing surface could hinder an effective seal and cause leakage.
2. Make sure that all contaminant is removed before the new filter is inserted . Dirt accidently transferred to the inside of the outlet tube will reach the engine and cause wear .
3. Engine manufactures say that it takes only a few grams of dirt to dust an engine . Be careful not to damage the sealing area on the tube.

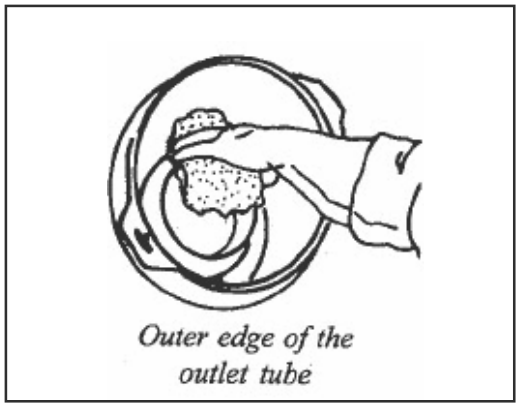

Fig 7

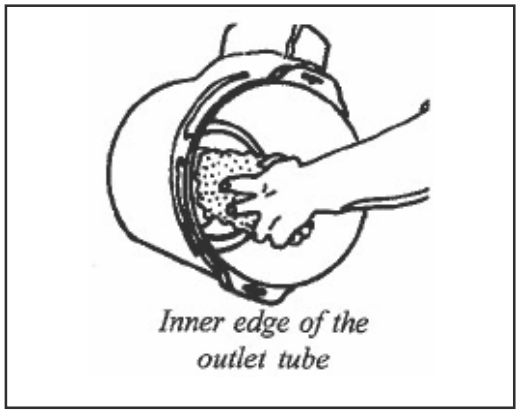

Fig 8

If your air cleaner is equipped with a dust cap

1. Empty the dust cap. Dust should not be allowed to build up closer than one inch from the baffle .
2. On models equipped with a evacuator valve, visually check and make sure the valve is not

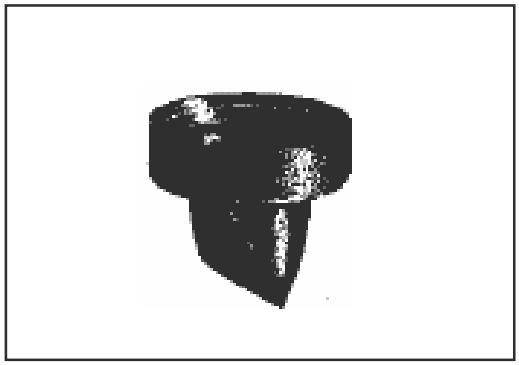

Fig 9

inverted , damaged or plugged.

Inspect the old filter for leak clues:

1. Visually inspect the old filter for any signs of leaks.A streak of dust on the clean side of the filter is a telltale sign .

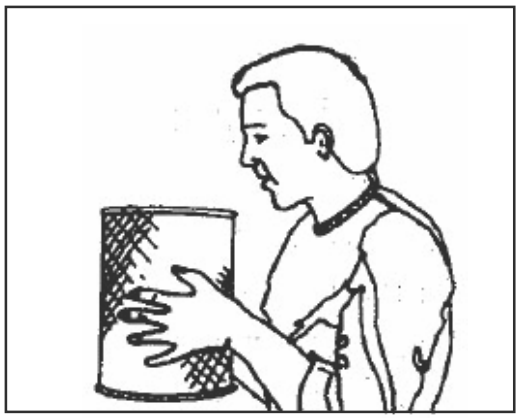

Fig 10

2. Remove any cause of leaks before installing new filter.

Inspect the new filter for damage

1. Inspect the new filter carefully , paying attention to the inside of the open end , which is the sealing area.
2. NEVER install a damaged filter . A new radial seal filter may have a dry lubricant on the seal to aid installation.

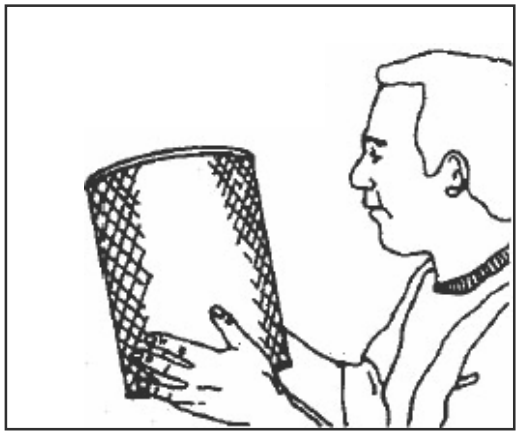

Fig 11

Insert the new radial seal filter properly.

1. If you are servicing the inner filter this should be seated into position before installing the primary filter .
2. Insert the new filter carefully .Seat the filter by hand ,making certain it is completely into the air cleaner housing before securing the cover in place.
3. The critical sealing area will strech slightly,adjust itself and distribute the sealing pressure evenly. To complete a tight seal , apply pressure by hand at the outer rim of the filter not the flexible center (Avoid pushing on the center of the urethane end cap)No cover pressure is required to hold the seal.

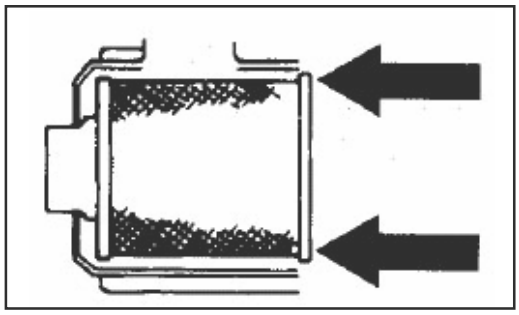

Fig 12

4. Again ,NEVER use the service cover to push t h e filter into place .Using the cover to push the filter in could cause damage to the housing and will void the warranty.
5. If the service cover hits the filter before it is fully in place remove the cover and push the filter (by hand) further into the air cleaner and try again. The cover should go on with no extra force.Once the filter is in place ,secure the service cover or dust cap.

Check connections for tight fit:

1. Make sure that all mounting bands ,clamps, bolts and connections in the aircleaner system are tight.Check for holes in piping and repair if needed.Any leaks in your intake piping will send dust directly to the engine.

5.5 HEAD LAMP MOUNTING BRACKET

Removal and refitment

Removal:

1. Pull the hood latch cable and lift the hood.
2. Remove hood see operation 5.2
3. Remove the vertical stiffner mounting bolts.
4. Remove the head light mounting bracket mounting bolts.
5. Remove the centre support light bracket.

Refitment:

6. Reverse the procedure 1 to 5 except

   a.Tighten all the bolts

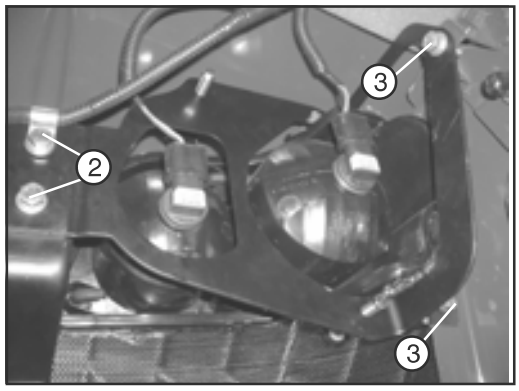

Fig 13

5.6 FRONT GRILL :

Removal and Refitment:

Removal:

1. Remove the hood see operation 5.2.
2. Remove the lock bracket with lock rod.
3. Remove the front vertical stiffner.
4. Remove the front grill mounting bolts.
5. Remove the front grill.

Refitment:

6. Reverse the procedure 1 to 5.

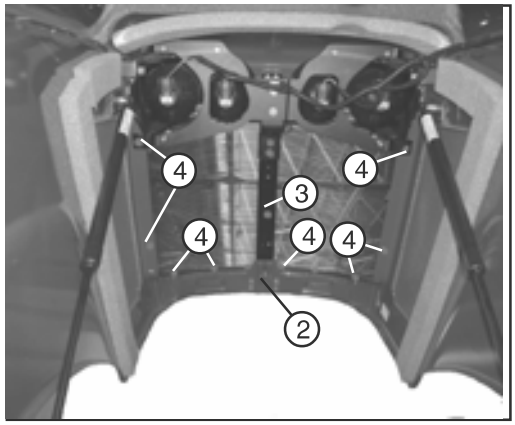

Fig 14

5.7 HINGE MOUNTING BRACKET :

Removal and refitment

Removal

1. Remove the surround and instrument cluster wiring.
2. Remove the hinge mounting bolts.
3. Remove the split pin and discard.
4. Remove the celvis pin.

Refitment:

5. Reverse the procedure 1 to 4 except.
   a. Install a new split pins.
   b. Tighten all the bolts at required torque.

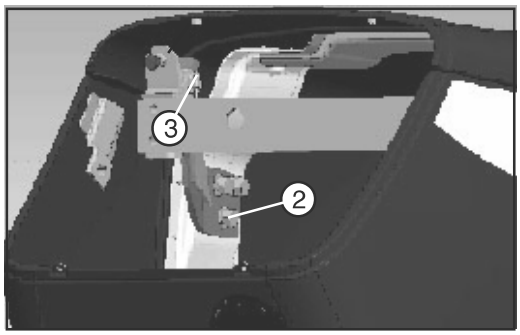

Fig 15

5.8 LIPSEAL:

Removal and refitment:

Removal:

1. Remove the hood see the operation 5.2 .
2. Remove the lip seal from the binnacle assembly and discard.

Refitment:

3. Reverse the procedure 1 to 2 except.
   a. Install a new lipseal and apply a recommended adhesive material on binnacle assembly.

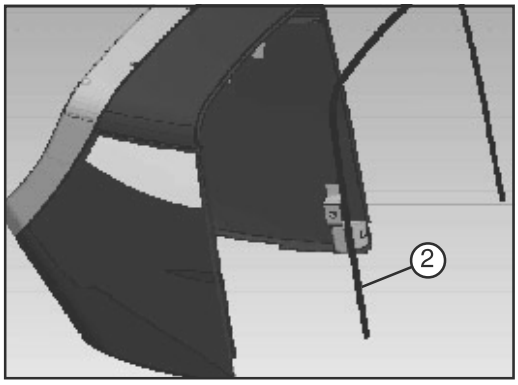

Fig 16

5.9 GAS STRUT :

Removal and refitment:

Removal:

1. Pull the hood latch cable and lift the hood fully.
2. Support the hood with wooden piece at suitable place .
3. Remove the ball joint stud at both the ends on left-hand and right-hand side.
4. Remove the gas strut .
   EXAMINE: Check the condition of gas strut , If you find any damage in gas strut , replace with new one.

Refitment:

5. Reverse the procedure 1 to 4 except.
   a. Tighten the ball joint end at required torque.

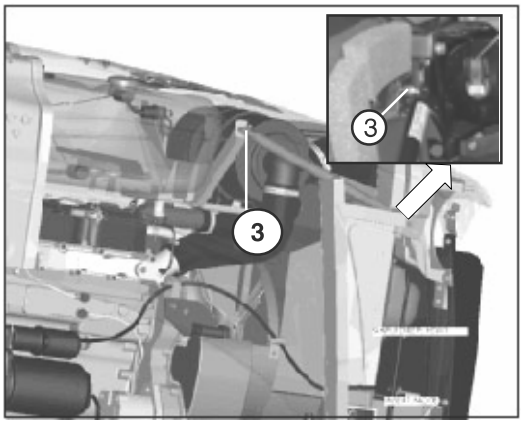

Fig 17

5.10 RADIATOR SEAL :

Removal and refitment:

Removal:

1. Pull the hood latch cable and lift the hood.
2. Strip off the seal from hood on both left-hand and right-hand side.

Refitment:

3. Reverse the procedure 1 to 2 except
   a. Install a new radiator seal and apply a recommended adhesive material.

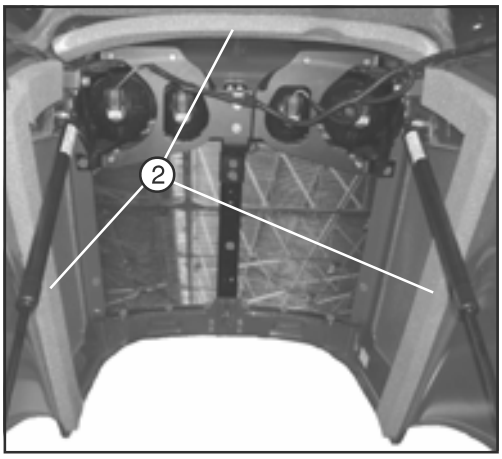

Fig 18

5.11 LOCK PLATE :

Removal and refitment:

Removal:

1. Pull the hood latch cable and lift the hood.
2. Remove the lock plate bolts .
3. Remove the lock plate from hood assembly.

Refitment:

4. Reverse the procedure 1 to 3 except.
   a. Check the condition of lock plate , if you find any wear / damage ,replace with new one.
   b. Tighten all the bolts at required torque .

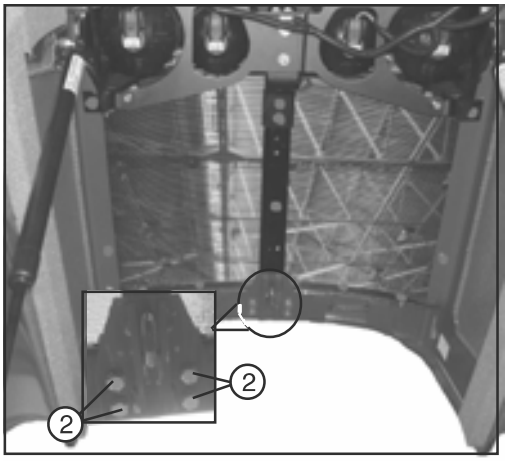

Fig 19

5.12 BATTERY TRAY

Removal and Refitment

Removal

1. Pull the hood latch cable and lift the hood.
2. Remove the battery terminals.
3. Remove the battery refer operation 14 A - 10.
4. Drain the radiator coolant from the radiator and engine.
5. Remove the shroud guard from the radiator.
6. Remove the stay rod and hoses from the radiator.
7. Remove the radiator mounting bolts and lift the radiator from the battery tray.
8. Remove the battery flat form bolts on both left and right hand side.
9. Lift the battery tray from the tractor.

Refitment

10. Reverse procedure 1 to 9.

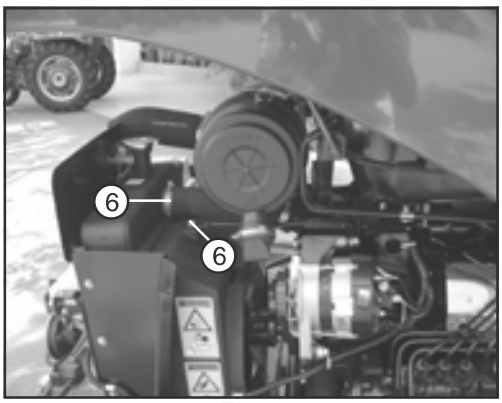

Fig 20

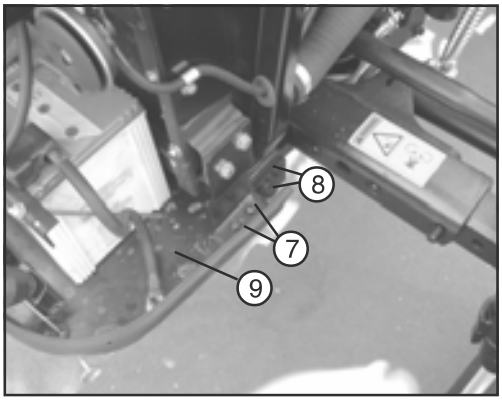

Fig 21

5.13 INSTRUMENT PANEL COVER

Removal and Refitment

Removal

1. Pull the hood latch cable and lift the hood.
2. Remove the battery terminals.
3. Remove the four bolts present in top and bottom surround.
4. Remove the bottom surround.
5. Remove the top surround along with the instrument cluster from the binnacle assembly.
6. Disconnect the wiring connections from the instrument cluster , light switch , indicator switch

Refitment

7. Reverse procedures 1 to 6, except:

   a. Ensure that the panel cover trim moulding are in good condition.

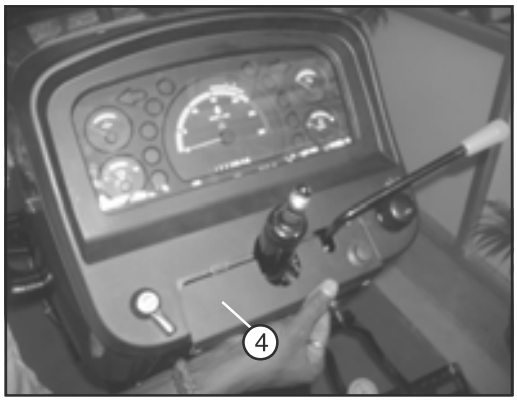

Fig 22

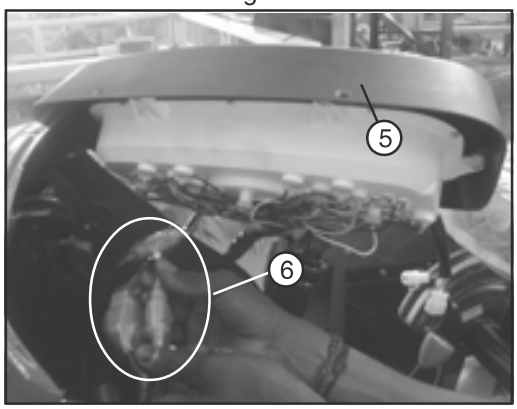

Fig 23

5.14 BINNACLE ASSEMBLY

Removal and Refitment

Removal

1. Remove the hood refer operation 5.2.
2. Remove the battery terminals.
3. Remove the bottom and top surround piece refer operation 5.13
4. Disconnect the block connectors connecting the instrument panel wiring loom from the front and rear wiring looms.
5. Remove the steering wheel.
6. Remove the four bolts retaining the assembly rear mounting bracket as well as in top mounting bracket.
7. Lift the binnacle assembly.

Refitment

8. Reverse procedures 1 to 7,

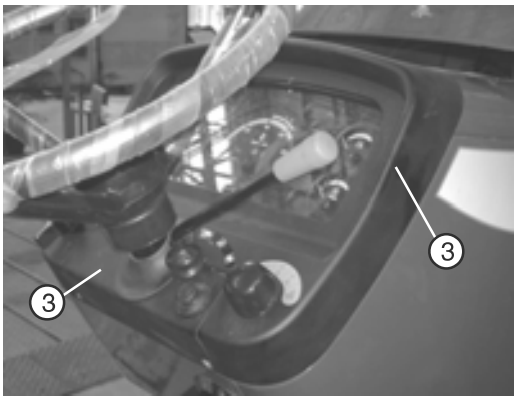

Fig 24

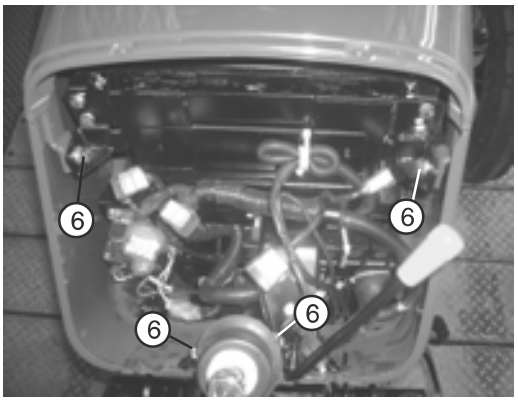

Fig 25

5.15 FENDER and ROPS

Removal and Refitment

Removal

1. Disconnect the battery terminal .
2. Disconnect the rear wiring harness at the socket, situated on rear of each foot step.
3. Remove the nuts, bolts, and washers retaining the fender extension to the foot step.
4. Remove the nuts, bolts and washers retaining the fender extension to the fender, and remove the extension.
5. Remove the hand brake mounting bracket by removing the bolts and nuts.
6. Remove the lynch pin from the stablizer chain.
7. Unscrew the two sets of lock nuts and unscrew from the fender which is placed over the ROPS.
8. Protecting the paintwork with suitable soft material, take the weight off the fender with a hoist/crane and slings.
9. Remove the fender and ROPS.
10. Unscrew the other two bolts on the ROPS to remove the ROPS from fender.

Refitment

11. Reverse procedures 1 to 10 and tighten the two nuts to a torque of 125 lbf ft (169 Nm).

    NOTE: *Incase of MF 2605 unscrew the 'U' - bolt mounted in the axle housing to remove the fender.*

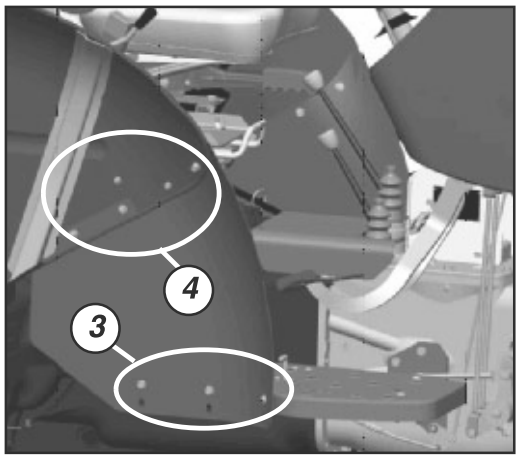

Fig 26

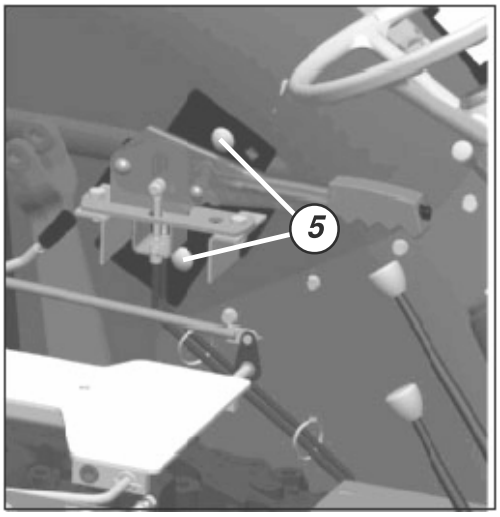

Fig 27

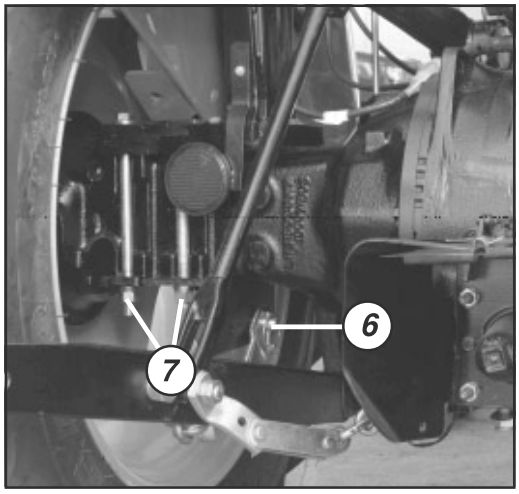

Fig 28

5.16 FOOTSTEP

Removal and Refitment

Removal

1. Remove the side nuts, washers and bolts to detach the fender from the foot step.
2. Remove the nuts, washers and carriage bolts to detach the footstep from the brackets three for (MF 2615) and two for (MF 2605) .
3. Manoeuvre the footstep from between the centre housing and fender.
4. Remove the nuts and bolts to remove the step.

   NOTE: *For removing the right hand foot step remove the foot throttle linkage pin.(refer 'A' in fig* ***29****)*

Refitment

5. Reverse procedures 1 to 4.

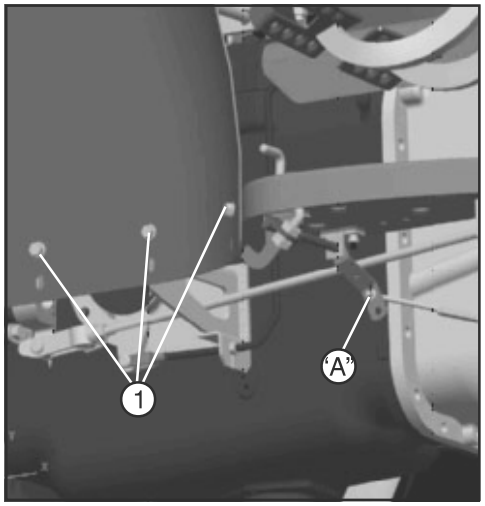

Fig 29

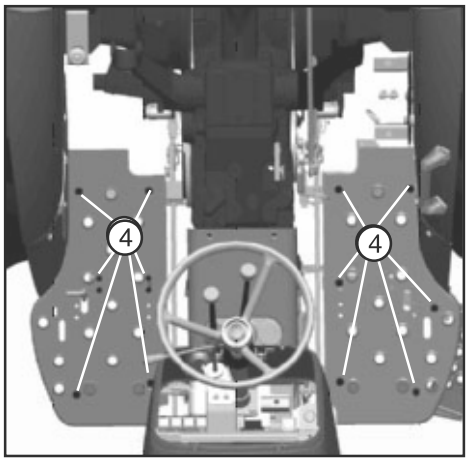

Fig 30 for MF 2615

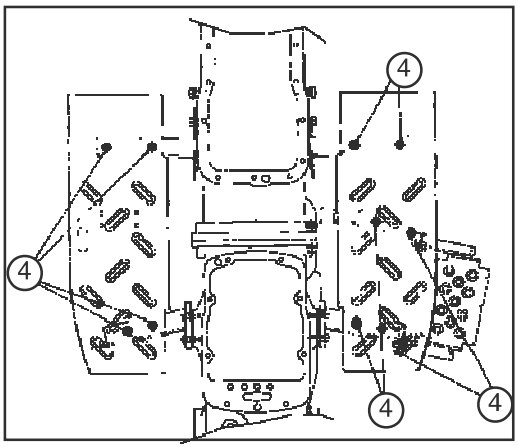

Fig31 for MF 2605

5.17 FUEL TANK:

Removal and refitment of fuel tank:

Removal

1. Remove the hood see the operation 5.2
2. Disconnect the fuel sensor terminals.
3. Drain the fuel from the tank by lengthening the fuel hose at the fuel feed pump.
4. Turn off the fuel and remove the fuel gauge float by removing the six screws securing the fuel gauge float.
5. Remove the fuel pipe lines which is connected to fuel tank.
6. Remove the four bolts securing the fuel tank assembly.

   Examine: Check for any damage in fuel tank , which leads to leakage

Refitment:

6. Reverse the procedure 1 to 5 except .
   a.Clean the fuel tank.

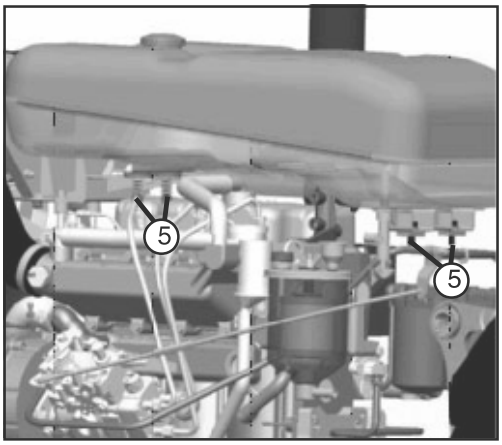

Fig 32

5.18 SEAT ADJUSTMENT

For comfortable operation of various controls, the seat can be adjusted to suit most operators height and weight. Slots provided at the bottom of the seat mounting bracket permits backward and forward movement of seat and also it can be adjusted using the lever provided. The slots provided at the back rest facilitate to raise and lower it. The seat has a spring suspension fitted with shock absorbers which can be customized for maximum comfort. The adjustment knob at the back of the seat stiffens seat movement when turned clockwise and softens when turned counterclockwise.

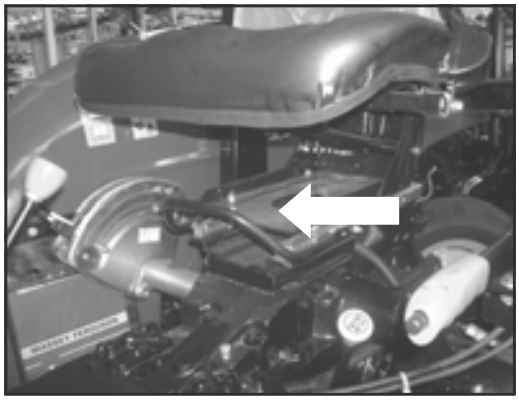

Fig 33

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